

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-057590

(43)Date of publication of application : 09.03.1993

---

(51)Int.CI. B24B 13/01

B24D 3/00

B24D 3/28

// B29C 59/04

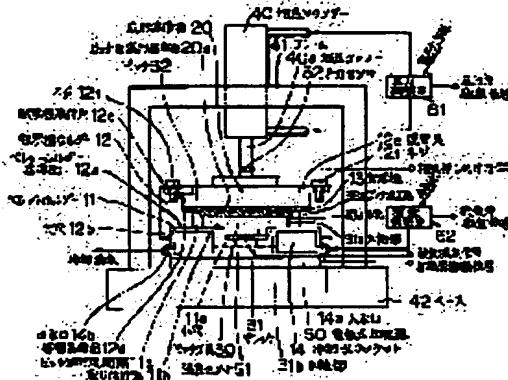
---

(21)Application number : 03-222957 (71)Applicant : CANON INC

(22)Date of filing : 03.09.1991 (72)Inventor : ANDO MANABU  
TAKIMOTO MASAFUMI

---

(54) MANUFACTURE OF PITCH TOOL AND DEVICE THEREOF



(57)Abstract:

**PURPOSE:** To facilitate a manufacturing process by making a transfer plate, having a pattern surface formed with an irregularity conformed to a polishing jagged pattern, so as to be pressed to a surface corresponded to the polishing surface as heating a pitch tool to a softening point in conformity to a specified change program with the lapse of time, in the pitch tool for polishing an optical element such as a lens or the like.

**CONSTITUTION:** A proper amount of pitch 32 is placed on a large shaft part 31a of a pellet 31 attached to a pellet holder 11. On the other hand, a transfer plate 13 and a forming

reference plate 20 are clamped to a transfer plate holder 12. Next, a large hole 12b of the transfer plate holder 12 is fitted in an outer diametral part of the pellet holder 11, mounting the transfer plate 13 on top of the pitch 32, and the pellet holder 11 and the transfer plate holder 12 both are placed on an electrothermal heater 50. Then, the transfer plate 13 is pressed as heating the pitch 32 up to a temperature little exceeding a softening point temperature according to a preset secular change program, thus a polishing jagged pattern is transferred.

---

**LEGAL STATUS**

[Date of request for examination] 27.01.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3140102

[Date of registration] 15.12.2000

[Number of appeal against examiner's

[decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

**BEST AVAILABLE COPY**